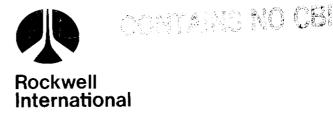
Rockwell International Corporation
Plastic Products Businesses
4002 Industrial Park
Route 5, Box 151
Centralia, Illinois 62801

(618) 532-1871



⊕ EPA-OTS

0006119397

October 20, 1989

90-900000014

TSCA Document Processing Center (TS-790)
Office of Toxic Substances
U.S. Environmental Protection Agency, Rm. L-100
401 M Street SW.
Washington, DC 20460
Attn: CAIR Reporting

Attn: CAIR Reporting Personnel:

Per the notification of Ashland Chemical Co., attached is the completed CAIR report on toluene diisocynate (TDI) processed by Rockwell International's Centralia facility for fiscal year 1988. I apologize for the delay in submitting this report and hope that it will not cause any inconvenience. If any additional information is required please feel free to contact me at the above address or (618) 532-1871 ext. 448. Again, I apologize for the submittal delay.

Sincerely,

ROCKWELL INTERNATIONAL

Renee Arnett

Environmental Engineer

		SECTION 1 GENERAL MANUFACTURER, IMPORTER, AND PROCESSOR INFORMATION
PART	A (ENERAL REPORTING INFORMATION
1.01	Thi	s Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
<u>CBI</u>	con	pleted in response to the <u>Federal Register Notice of $[o]_{\overline{o}}$ $[\overline{1}]_{\overline{g}}$ $[\overline{1}]_{\overline{g}}$ $[\overline{8}]_{\overline{q}}$ year</u>
[_]	a.	If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
		Register, list the CAS No $[0]\overline{a}\overline{b}$
	b.	If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal Register</u> .
		(i) Chemical name as listed in the rule Renzene, 1,3=disocyanatonethy
		(ii) Name of mixture as listed in the rule (Toluené dissocyanate)
		(iii) Trade name as listed in the rule
	c.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule
		CAS No. of chemical substance [_]_]_]_]_]_]_]_]_]_]_]_]-[_]
		Name of chemical substance
1.02	Ide	ntify your reporting status under CAIR by circling the appropriate response(s).
CBI	Man	ufacturer 1
[_]	Imp	orter 2
	Pro	cessor
		manufacturer reporting for customer who is a processor 4
	X/P	processor reporting for customer who is a processor
ll	Mark	(X) this box if you attach a continuation sheet.

1.03	Does the substance you are reporting on have an "x/p" designation associated with it in the above-listed Federal Register Notice?
CBI	Yes
,	No
1.04	a. Do you manufacture, import, or process the listed substance and distribute it under a trade name(s) different than that listed in the Federal Register Notice? Circle the appropriate response.
<u>CBI</u>	Yes
	No
	b. Check the appropriate box below:
	$[\ \ \]$ You have chosen to notify your customers of their reporting obligations
	Provide the trade name(s)
	[_] You have chosen to report for your customers [_] You have submitted the trade name(s) to EPA one day after the effective date of the rule in the Federal Register Notice under which you are reporting.
1.05 <u>CBI</u>	If you buy a trade name product and are reporting because you were notified of your reporting requirements by your trade name supplier, provide that trade name. Trade name
[_]	\mathcal{L}
	Is the trade name product a mixture? Circle the appropriate response.
	(Yes)
	No 2
1.06	Certification The person who is responsible for the completion of this form must sign the certification statement below:
	"I hereby certify that, to the best of my knowledge and belief, all information entered on this form is complete and accurate." Complete And Complete Complete
	Environmental Engineer (618) 532 - 1871 TITLE TITLE NO.
[_]	Mark (X) this box if you attach a continuation sheet.

: 3

_] }	are required to complete sec now required but not previou submissions along with your "I hereby certify that, to t	sly submitte Section 1 s	ed. Provide a copy of ubmission.	any previous
	information which I have not to EPA within the past 3 yea period specified in the rule	rs and is co		
	NAME		SIGNATURE	DATE SIGNED
	TITLE	(TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION
		tatements tr		
<u>I</u>	certify that the following sthose confidentiality claims "My company has taken measure and it will continue to take been, reasonably ascertainablusing legitimate means (other a judicial or quasi-judicial information is not publicly a would cause substantial harm	which you hes to proted these measule by other than discoproceeding) available el	nave asserted. It the confidentiality Ires; the information if persons (other than go overy based on a showing without my company's sewhere; and disclosur	of the information, is not, and has not overnment bodies) by ng of special need in consent; the ce of the information
]	"My company has taken measure and it will continue to take been, reasonably ascertainablusing legitimate means (other a judicial or quasi-judicial information is not publicly a	which you hes to proted these measule by other than discoproceeding) available el	nave asserted. It the confidentiality Ires; the information if persons (other than go overy based on a showing without my company's sewhere; and disclosur	of the information, is not, and has not overnment bodies) by ng of special need in consent; the re of the information

PART	B CORPORATE DATA
1.09	Facility Identification
<u>CBI</u>	Name [R]O]C K W E L L]I N I E R N A T I O N A L] Address [4]O O]2 I N D V S T R I A L P A R K
	[C]로[진]丁[R]죠]드]포]죠]ㅡ]ㅡ]ㅡ]ㅡ]ㅡ]ㅡ]ㅡ]ㅡ]ㅡ]ㅡ] Ci ty
	[<u>工]</u> L] [<u>6]</u> 2]图 <u>[0]</u>][<u>]</u>] <u>]</u>] State
	Dun & Bradstreet Number [0]6]-[4]6]2]-[6]3]4]4] EPA ID Number [五]五]0]6]4]6]2]6]3 Employer ID Number [9]5]1]0]5]4]7]0]8 Primary Standard Industrial Classification (SIC) Code [3]7]1]4] Other SIC Code [1]1]1 Other SIC Code [1]1]1
1.10	Company Headquarters Identification
<u>CBI</u>	Name [〒 0 0
	[M]工] [平]家]回[3]千][]]]] Dun & Bradstreet Number

_								•	
1.11	Parent (Company Identif	ication						
<u>CBI</u>	Name []	RIOICIKIWI	<u> </u>	[포[쯔]포]	EIRINI	<u>포</u> [<u>〒</u> [<u>주</u>	1 <u>0</u> 1 <u>0</u> 1	<u> </u>	
[_]	Address	[<u>6]0]0]</u>]	<u>5]0]u]7</u>]	<u> </u>	RIAINI Stree	丁]_]_ t]_]]]	_1_1_1	11
		[五[五]五]	<u>51B1~1R</u> 1	[조]표]_]]]] 	11_]_]_]	_1_1_1	_1_1_
					[P]A] State	[<u>T</u>] <u>S</u>	1 <u>2</u> 1 <u>T</u> 1]][]] Zip	_1_1_1
	Dun & Br	adstreet Number	r	•••••	••••••	[<u>0</u>] <u>0</u>]-	[<u>\$</u>] <u>2</u>]	<u>-</u>	<u> [2</u>]
1.12	Technica	l Contact		-					
CBI	Name [Ē	EIEINIEIEI	_I <u>AIRIN</u> I	三江江!	111]	_111_	111
[_]	Title [<u> </u>			D161I	NIEIE	IRI_I	
	Address	[4]0]0]2]	_ <u> <u> </u> <u> </u> <u> </u> </u>	<u> </u>	RI <u>IIA</u> Street		<u>a</u> iri <u>k</u>	<u> </u>	_1_1_1
			ZIAILIII;	<u> </u>]]] City		11	_1_1_1_	_1_1_1
					[王] <u>[</u>] State	[6]2	8 0 1][_]_ Zip	_111
	Telephone	e Number	• • • • • • • • • • • •	• • • • • • • • •	[<u>6</u>	<u> [8</u>	<u>[<u>5</u>]<u>3</u>]</u>	<u>2</u>]-[<u>1</u>] <u>8</u>	<u> 1717</u> 1
1.13	This repo	orting year is	from		[]	_] <u>O</u>] [{\frac{7}{2}}	3] 7] to	[<u>0]9</u>]	[<u>\vec{g}</u>] Year
•									
								•	
— _{ј м}	ark (X) t	his box if you	attach a co	ntinuatio	n sheet				

1.14 Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller: NA		
Mailing Address Street Street State Zip	1.14	provide the following information about the seller:
Employer ID Number Date of Sale Telephone Number Date of Buyer Mailing Address Employer ID Number Employer ID Number Date of Purchase Contact Person []	CBI	Name of Seller [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
Employer ID Number Date of Sale	[<u>_</u> j	
Employer ID Number Date of Sale		[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
Date of Sale		[_]_] [_]]]][_]]_]_] State
Contact Person []		Employer ID Number
Telephone Number		
1.15 Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer: NAT		Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
Name of Buyer		Telephone Number
[] Mailing Address []]]]]]]]]]]]]]]]]]	1.15	following information about the buyer:
Street	CBI	Name of Buyer [_]_]_]_]_]_]_]_]]]]]]]]]]]]]]]]
[_]_]	[_]	
State		[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
Date of Purchase		
Mo. Day Year Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]		Employer ID Number
Telephone Number		` <u>~~~</u> ` `~~ ` `~~ ` `~~
		Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]]]]]
Mark (X) this box if you attach a continuation sheet		Telephone Number
Mark (X) this box if you attach a continuation sheet		
Mark (X) this box if you attach a continuation sheet		
		(ark (X) this how if you attach a continuation cheet

CBI	was manufactured, imported, or processed at your facility during the		
[_]	Classification	Quantity (kg/yr)	
_	Manufactured	. <u>NA</u>	
	Imported	. NA	
	Processed (include quantity repackaged)	. 3268	
	Of that quantity manufactured or imported, report that quantity:		
	In storage at the beginning of the reporting year	. <u>NA</u>	
	For on-site use or processing	. <u>NA</u>	
	For direct commercial distribution (including export)	. <u>NA</u>	
	In storage at the end of the reporting year	. <u>NA</u>	
	Of that quantity processed, report that quantity:		
	In storage at the beginning of the reporting year	೦.ರ	
	Processed as a reactant (chemical producer)	. 3268	
	Processed as a formulation component (mixture producer)	•	
	Processed as an article component (article producer)	•	
	Repackaged (including export)	. <u>NA</u>	
	In storage at the end of the reporting year	0.0	
	<u>.</u>		
	•		

PART C IDENTIFICATION OF MIXTURES

1.17 Mixture -- If the listed substance on which you are required to report is a mixture or a component of a mixture, provide the following information for each component chemical. (If the mixture composition is variable, report an average percentage of each component chemical for all formulations.)

CBI

[_]

Component Name	Supplier Name	Average % Composition by Weight (specify precision, e.g., 45% ± 0.5%)
Payurethane Polymer	Ashland aemical Co.	50%± 2.0%
Talc	Ashland Chemical Co.	27.5%± 2.5%
Poly (Methylene phenylene)	Ashland Chemical Co.	<u>75% ± 2.5%</u>
Polyisocyanate		
Toluene Diisocyan ate	Ashland Chemical Co.	15% ± 0.0%
,		

Total

100%

[_] Mark (X) this box if you attach a continuation sheet.

2.04	State the quantity of the listed substance that your facility manufactured, importe or processed during the 3 corporate fiscal years preceding the reporting year in descending order.	d,
CBI		
[_]	Year ending $[\overline{\mathcal{D}}]\overline{9}$ $[\overline{8}]\overline{7}$ Mo. Year	
	Quantity manufactured	kg
	Quantity imported	kg
	Quantity processed	kg
	Year ending	
	Quantity manufactured	κg
	Quantity imported	kg
	Quantity processed	ζg
	Year ending	
	Quantity manufactured	ιg
	Quantity imported	ζg
	Quantity processed	g
2.05 CBI	Specify the manner in which you manufactured the listed substance. Circle all appropriate process types.	
[_]	Continuous process	1
	Semicontinuous process	
	Batch process	
	Batch process	3
[-]	Mark (X) this box if you attach a continuation sheet.	

2.06	•			
CBI	Specify the manner in appropriate process ty		the listed substance.	Circle all
[_]	Continuous process		·	•
	•			
	Semicontinuous process			
	Batch process			3
2.07 CBI	State your facility's substance. (If you arquestion.)			
[_]	Manufacturing capacity		• • • • • • • • • • • • • • • • • • • •	kg/yr
•	Processing capacity .			
2.08 CBI	If you intend to incre manufactured, imported year, estimate the inc volume.	, or processed at any	time after your curre	nt corporate fiscal
	-	_		
[_]	•	ManufacturingQuantity (kg)	Importing Quantity (kg)	Processing Quantity (kg)
[_]	Amount of increase			
[_]				Quantity (kg)
[<u>]</u>]	Amount of increase Amount of decrease			
[<u></u>]				Quantity (kg)
[_]				Quantity (kg)
[_]				Quantity (kg)
[_]				Quantity (kg)
[_]				Quantity (kg)
[_]				Quantity (kg)
[_]				Quantity (kg)
[_]				Quantity (kg)
[_]				Quantity (kg)
[_]				Quantity (kg)
				Quantity (kg)

2.09	listed substanc	argest volume manufacturing or processing proce e, specify the number of days you manufactured g the reporting year. Also specify the average s type was operated. (If only one or two opera	or processed number of h	the listed ours per
<u>CBI</u>			Days/Year	Average Hours/Day
	Process Type #1	(The process type involving the largest quantity of the listed substance.)		
		Manufactured	NA	NA
		Processed	250	16
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)		
		Manufactured	<u>NA</u>	_ NA
		Processed	NA	NA_
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)		
		Manufactured	NA	_NA_
		Processed	NA_	NA
2.10 <u>CBI</u> []	substance that chemical. Not require Maximum daily in	um daily inventory and average monthly inventory was stored on-site during the reporting year in red	the form of	ted a bulk kg
[_]	Mark (X) this b	ox if you attach a continuation sheet.		

[_]	etc.).				Source of By
AL	CAS No.	Chemical Name	Byproduct, Coproduct or Impurity ¹	Concentration (%) (specify ± % precision)	products, Co- products, or Impurities

2.12 <u>CBI</u> [_]	total volume of listed substantity of listed substantity	using the listed su substance you use f substance used duri tance used captivel and the types of e	bstance during the or each product ty ng the reporting yo y on-site as a pero nd-users for each p	reporting year. Elst pe as a percentage of the ear. Also list the
	a. Product Types ¹	b. % of Quantity Manufactured, Imported, or Processed	c. % of Quantity Used Captively On-Site	d. Type of End-Users ²
	<pre>1 Use the following code: A = Solvent B = Synthetic reactant C = Catalyst/Initiator. Sensitizer D = Inhibitor/Stabilize Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction agent I = Surfactant/Emulsif J = Flame retardant K = Coating/Binder/Adhe</pre>	/Accelerator/ er/Scavenger/ /Sequestrant /Degreaser modifier/Antiwear ier	L = Moldable/Casta M = Plasticizer N = Dye/Pigment/Coo o = Photographic/Coo and additives P = Electrodeposi Q = Fuel and fuel R = Explosive ches S = Fragrance/Flac T = Pollution con U = Functional flac V = Metal alloy as W = Rheological m	micals and additives vor chemicals trol chemicals uids and additives nd additives odifier
	² Use the following code: I = Industrial CM = Commercial	CS = Cons		· · · · · · · · · · · · · · · · · · ·

<u>CBI</u>	Expected Product Types Identify all product types which you expect to manufacture import, or process using the listed substance at any time after your current corporate fiscal year. For each use, specify the quantity you expect to manufacture import, or process for each use as a percentage of the total volume of listed substance used during the reporting year. Also list the quantity of listed substanced captively on-site as a percentage of the value listed under column b., and the types of end-users for each product type. (Refer to the instructions for further explanation and an example.)				
	a.	b.		c.	d.
	Product Types ¹	% of Quantity Manufactured, Imported, or Processed	_	% of Quantity Used Captively On-Site	Type of End-Users ²
			_		
			<u>-</u> 		
	<pre>"Use the following code A = Solvent B = Synthetic reactant C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabiliz Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction agent I = Surfactant/Emulsif J = Flame retardant K = Coating/Binder/Adh</pre> "Use the following code I = Industrial	/Accelerator/ er/Scavenger/ //Sequestrant //Degreaser modifier/Antiwear ier lesive and additives es to designate the CS = Cons	L = N = O = O = O = O = O = O = O = O = O	Moldable/Castabl Plasticizer Dye/Pigment/Colo Photographic/Rep and additives Electrodepositio Fuel and fuel ad Explosive chemic Fragrance/Flavor Pollution contro Functional fluid Metal alloy and Rheological modi Other (specify) of end-users:	als and additives chemicals l chemicals s and additives additives fier
	CM = Commercial	H = Othe	r (s	pecify)	

a. b.	•	c. Average %	d.
		Composition of	
Final Pr		Listed Substance in Final Product	Type of End-Users
Product Type ¹ Physical	Form	in rinal rioduct	Bild-USE13
Use the following codes to des	signate pro	duct types:	
A = Solvent		L = Moldable/Castable	e/Rubber and add
B = Synthetic reactant		M = Plasticizer	
<pre>C = Catalyst/Initiator/Acceler</pre>	rator/	N = Dye/Pigment/Color	rant/Ink and add
Sensitizer		0 = Photographic/Rep	rographic chemic
D = Inhibitor/Stabilizer/Scave	enger/	and additives	
Antioxidant	•	P = Electrodeposition	n/Plating chemic
E = Analytical reagent		Q = Fuel and fuel add	ditives
F = Chelator/Coagulant/Sequest	rant	R = Explosive chemica	
G = Cleanser/Detergent/Degreas	ear	S = Fragrance/Flavor	chemicals
H = Lubricant/Friction modifie	r/Antiweer		chemicals
	SI / MII (I WE al	U = Functional fluids	
agent		V = Metal alloy and a	
I = Surfactant/Emulsifier	· •		
J = Flame retardant		W = Rheological modi:	rier
K = Coating/Binder/Adhesive ar			
Use the following codes to des			cal form:
A = Gas		stalline solid	
B = Liquid	F3 = Gra		
C = Aqueous solution	F4 = Oth	er solid	
D = Paste	G = Gel		
E = Slurry	H = Oth	er (specify)	
F1 = Powder			
Use the following codes to des	signate the	type of end-users:	
I = Industrial	CS = Con	sumer	
CM = Commercial	H = Oth	er (specify)	
VII - 00			

2.15 CBI	Circ list	the all applicable modes of transportation used to deliver bulk shipments of ed substance to off-site customers. NA	f the
[_]		kk	•••
	Rail	car	•••
	Barg	e, Vessel	• • •
	Pipe	line	• • •
	Plan	e	• • •
	0the	r (specify)	•••
2.16 CBI	or p	omer Use Estimate the quantity of the listed substance used by your cus repared by your customers during the reporting year for use under each cat nd use listed (i-iv).	tomers egory
[_]	Cate	gory of End Use	
	i.	Industrial Products	
		Chemical or mixture	kg/yı
		Article	
	ii.	Commercial Products	
		Chemical or mixture	_ kg/yr
		Article	
	iii.	Consumer Products	
		Chemical or mixture	_ kg/yr
		Article	kg/yr
	iv.	<u>Other</u>	
		Distribution (excluding export)	kg/yr
		Export	
		Quantity of substance consumed as reactant	
		Unknown customer uses	kg/yr
		(X) this how if you attach a continuation sheet	

	SECTION 3 PROCESSOR RAW MATERIAL IDE	NTIFICATION	
PART	A GENERAL DATA		
3.01 CBI	Specify the quantity purchased and the average price for each major source of supply listed. Product trace The average price is the market value of the product substance.	les are treated a	s purchases
[_]	Source of Supply	Quantity (kg)	Average Price (\$/kg)
	The listed substance was manufactured on-site.	NA	NA
	The listed substance was transferred from a different company site.	NA	NA
	The listed substance was purchased directly from a manufacturer or importer.	NA	NA
	The listed substance was purchased from a distributor or repackager.	NA	NA NA
	The listed substance was purchased from a mixture producer.	22,228	0.903
3.02 CBI	Circle all applicable modes of transportation used to your facility.	deliver the lis	ted substance to
[_]	Truck		1
	Railcar		2
	Barge, Vessel		3
	Pipeline		4
	Plane		5
	Other (specify)		6

[_]	Mark (X)	this box if you attach a continuation sheet.
		21

а.	Circle all applicable containers used to transport the listed state facility.	ubstance	to you
	Bags	• • • • • • • •	• • • • • •
	Boxes	• • • • • • • •	
	Free standing tank cylinders		
	Tank rail cars	• • • • • • • •	• • • • •
	Hopper cars		
	Tank trucks		
	Hopper trucks		
	Drums		
	Pipeline		
	Other (specify)		
		nders ta	nk rai
b.	If the listed substance is transported in pressurized tank cylin cars, or tank trucks, state the pressure of the tanks.	nuers, ta	242
b.	Tank cylinders		
b.	cars, or tank trucks, state the pressure of the tanks.	<u>N</u> A	m
b.	cars, or tank trucks, state the pressure of the tanks. Tank cylinders	<u>N</u> A	m
b.	Cars, or tank trucks, state the pressure of the tanks. Tank cylinders Tank rail cars	<u>N</u> A	m
b.	Cars, or tank trucks, state the pressure of the tanks. Tank cylinders Tank rail cars	<u>N</u> A	m
b.	Cars, or tank trucks, state the pressure of the tanks. Tank cylinders Tank rail cars	<u>N</u> A	m
b.	Tank cylinders Tank rail cars Tank trucks	<u>N</u> A	m
b.	Tank cylinders Tank rail cars Tank trucks	<u>N</u> A	m
b.	Tank cylinders Tank rail cars Tank trucks	<u>N</u> A	m
b.	Tank cylinders Tank rail cars Tank trucks	<u>N</u> A	m
b.	Tank cylinders Tank rail cars Tank trucks	<u>N</u> A	m
b.	Tank cylinders Tank rail cars Tank trucks	<u>N</u> A	m m
b.	Tank cylinders Tank rail cars Tank trucks	<u>N</u> A	m m

3.04 <u>CBI</u>	If you obtain the listed substance in the form of a mixture, list the trade name(s) of the mixture, the name of its supplier(s) or manufacturer(s), an estimate of the average percent composition by weight of the listed substance in the mixture, and the amount of mixture processed during the reporting year.					
''	Trade Name	Supplier or Manufacturer	Average % Composition by Weight (specify <u>+</u> % precision)	Amount Processed (kg/yr)		
	Pliogrip 6000	Ashland Chemical	14.7±0.0%	22,228		
	·					
		•				

3.05 CBI	State the quantity of the listed substance used as a raw material during the reporting year in the form of a class I chemical, class II chemical, or polymer, ar the percent composition, by weight, of the listed substance.						
[<u>]</u>]		Quantity Used (kg/yr)	% Composition by Weight of Listed Sub- stance in Raw Material (specify ± % precision				
	Class I chemical	NA					
	Class II chemical	NA_					
	Polymer	NA					
	. · · · · · · · · · · · · · · · · · · ·						
-							

If you as 4 that as For ques notice the facsimile PART A 4.01 Sp. Su.	re inappropriate to m tions 4.06-4.15, if y hat addresses the infe e in lieu of answering PHYSICAL/CHEMICAL DAT		mixture." varning statement, lab n may submit a copy or	el, MSDS, or other		
For questo notice the facsimile of the f	re inappropriate to m tions 4.06-4.15, if y hat addresses the infe e in lieu of answering PHYSICAL/CHEMICAL DAT	ixtures by stating "NA ou possess any hazard wormation requested, you g those questions which	mixture." varning statement, lab n may submit a copy or	el, MSDS, or other		
PART A 4.01 Sp	hat addresses the infee in lieu of answering PHYSICAL/CHEMICAL DAT	ormation requested, you g those questions which A SUMMARY	ı may submit a copy or	el, MSDS, or other reasonable		
4.01 Sp	eaify the percent pur					
Su Su	ecify the percent pur					
	hotonce in the final	ity for the three major factured, imported, or product form for manufa r at the point you beg	acturing activities, a	t the time you		
[_]		Manufacture	Import	Process		
Te	chnical grade #1	% purity	% purity	99.7 % purit		
	chnical grade #2	% purity	% purity	NA % purit		
	echnical grade #3	% purity	% purity	NA % purit		
1 _M	lajor = Greatest quant	ity of listed substance	e manufactured, import	ed or processed.		
su an ve ap	Submit your most recently updated Material Safety Data Sheet (MSDS) for the listed substance, and for every formulation containing the listed substance. If you posses an MSDS that you developed and an MSDS developed by a different source, submit your version. Indicate whether at least one MSDS has been submitted by circling the appropriate response.					
Ye	Yes					
No	No					
In	Indicate whether the MSDS was developed by your company or by a different source.					
Yo	our company		• • • • • • • • • • • • • • • • • • • •	•••••		

	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.
	Yes
	No
4.04	For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at the time you import or begin to process the listed substance. Physical states for
CBI	manufacturing, storage, disposal and transport activities are determined using the final state of the product.

Physical State					
Solid	Slurry	Liquid	Liquified Gas	Gas	
1	2	3	4	5	
1	2	3 ·	4	5	
1	2	3	4	5	
. 1 .	<u>.</u> 2	3	4	5	
ĺ	2	3	4	5	
1	2	3	4	5	
	1 1 1 1	Solid Slurry 1 2 1 2 1 2 1 2 1 2 1 2 1 2	1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3	Solid Slurry Liquid Liquified 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4	

(X) this box if you attach a continuation sho

storage	substance. Measure t , disposal and transp	ort activities	using t	the final	state o	of the pro	duct.
Physica State	1 	Manufacture	Import	Process	Store	Dispose	Transpor
Dust	<1 micron						
	1 to <5 microns		*****				
	5 to <10 microns						
Powder	<1 micron						
	1 to <5 microns						
	5 to <10 microns						
	•		_				
Fiber	<1 micron						
	1 to <5 microns						
	5 to <10 microns			· · · · · · · · · · · · · · · · · · ·			
,		* i					
Aerosol	<1 micron						•—————————————————————————————————————
	1 to <5 microns						
	5 to <10 microns		-				
		•		÷			

		SECTION 5 ENVIRONMENTAL	FATE		
PART	A I	RATE CONSTANTS AND TRANSFORMATION PRODUCTS			
5.01	Ind	licate the rate constants for the following tra	ansforma	tion processes.	
	a.	Photolysis:			
		Absorption spectrum coefficient (peak)	_uk_	_ (1/M cm) at	nm
		Reaction quantum yield, 6	uK_	at	nm
		Direct photolysis rate constant, k_p , at	UK	1/hr	latitude
	b.	Oxidation constants at 25°C:			
		For ¹ 0 ₂ (singlet oxygen), k _{ox}		UK	1/M hr
		For RO ₂ (peroxy radical), k _{ox}		uK	1/M hr
	c.	Five-day biochemical oxygen demand, BOD ₅		uk	mg/l
	d.	Biotransformation rate constant:			
		For bacterial transformation in water, $k_b \dots$		uk	1/hr
		Specify culture		uk	
	e.	Hydrolysis rate constants:			
		For base-promoted process, k _B		UK	1/M hr
		For acid-promoted process, k _A		uĸ	1/M hr
`		For neutral process, $k_{_{\rm N}}$	·	uk	1/hr
	f.	Chemical reduction rate (specify conditions)_		UK	
	g.	Other (such as spontaneous degradation)		uk	· ·
		(11 11 an afairmana 12 6 -121, (11)			

a continuation sheet.

		10.00				
PART	ВЕ	PARTITION COEFFICIENTS				
5.02	a.	Specify the half-lif	e of the listed subs	tance in the follo	owing medi	a.
		<u>Media</u>		Half-life (spe	ecify unit	:s)
		Groundwater	·	uk		
		Atmosphere		uk		
		Surface water	-	uk		
		Soil		uk		
	b.	Identify the listed : life greater than 24				have a half-
		CAS No.	<u>Name</u>	Half-life (specify units	<u>s)</u>	<u>Media</u>
		UK			in	
		uk			in	
		ük			in	
		uk			in	
5.03		cify the octanol-water			uk	at 25°C
5.04		ecify the soil-water particle			uk	at 25°C
5.05	Spe	ecify the organic carbo	on-water partition		uK	at 25°C
5.06	Spe	ecify the Henry's Law (Constant, H		UK	atm-m³/mole
[_]	Mar	k (X) this box if you	attach a continuation	on sheet.		

Bioconcentration Factor	Species	Test ¹
<u>uk</u>		
uk		
<u> </u>		
¹ Use the following codes to des	signate the type of test:	
<pre>F = Flowthrough S = Static</pre>		
	•	
·		
	. •	
	•	
!		
· .		
	•	

6.04 CBI	For each market listed below, state the listed substance sold or transfe	rred in bulk during the r	eporting year.
[_]	Not Required	Quantity Sold or	Total Sales
	Market	Transferred (kg/yr)	Value (\$/yr)
	Retail sales		
	Distribution Wholesalers		
	Distribution Retailers		Control of the second s
	Intra-company transfer		
	Repackagers		
	Mixture producers .		
	Article producers		
	Other chemical manufacturers or processors		
*	Exporters		deletable de la companya de la compa
	Other (specify)		

6.05 <u>CBI</u>	Substitutes List all known commerce for the listed substance and state the feasible substitute is one which is early or current operation, and which performance in its end uses.	ne cost of each substitut economically and technolo	e. A commercially gically feasible to use
lJ	Substitute		Cost (\$/kg)
	Diphenylmethane Diisocyanate		uĸ
	Methylene phenylene Isocyanate	Oligomer	<u>uk</u>

SECTION 7 MANUFACTURING AND PROCESSING INFORMATION

General Instructions:

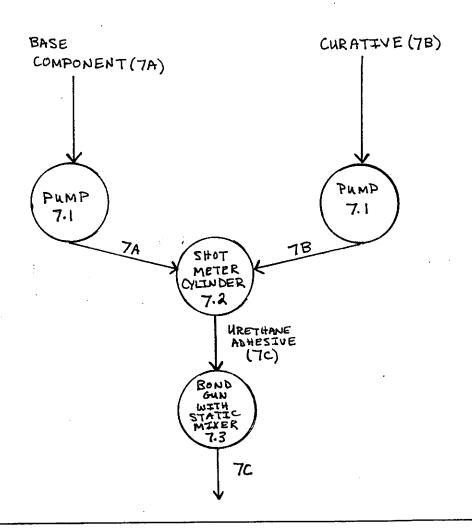
For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the information is extracted.

PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

CBI

_1 Process type Two-Part Urethane Adhesive Mix Process



[] Mark (X) this box if you attach a continuation sheet.

7.03	In accordance with the instructions, provide a process block flow diagram showing all process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if not treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions for question 7.01. If all such emissions are released from more than one process type, provide a process block flow diagram showing each process type as a separate block.
	Process type
NA	- No emissions occur. The TDI in the base component (7A) reacts to completion with the curative (7B) to form the urethane bond (7C)
	·

[_] Mark (X) this box if you attach a continuation sheet.

<u>CBI</u>	process type. Process type	Two-Part	- Usethane Ad	Thesive Mix f) roces5
	Unit Operation ID Number 7.1 7.2 7.3	Typical Equipment Type PUMP SHOT METER CYLINDER BOND GUN W/ STATIC MIXER	Operating Temperature Range (°C) AMBTENT AMBIENT	Operating Pressure Range (mm Hg) 20,702 51,756 25,878	Vessel Composition STEEL STEEL ALUMINUM

	question and co	low diagram is provided for more mplete it separately for each pr	ocess type.	e, photocopy th
BI				
_]	Process type	Two-Part Urethane	Adhesive Mix	Process
	Process Stream ID Code 7A 7B	Process Stream Description Base Component Curative	Physical State ¹ OL	Stream Flow (kg/yr 22,228
	<u>7C</u>	Mixed Urethane Adhesive	SY	27,785
		•		
-				•
	GC = Gas (conden GU = Gas (uncond SO = Solid SY = Sludge or s AL = Aqueous liq OL = Organic liq	uid	pressure) nd pressure)	
		(

7.06	If a proce	ze each process stream id ss block flow diagram is ion and complete it separ	provided for mor	re than one pro	cess type, photocopy
CBI		ns for further explanatio			(Netel to the
[_]	Process ty	pe Two-Part	Urethane Mix	Process	
	a.	b.	c.	d.	e.
	Process Stream ID Code	Known Compounds ¹	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
	7A	Polyurethune Polymer	50% (E)(W)	NA	NA
		Talc	28%(E)(W)	NA	NA
		Poly (Methylene phenylene) Poly isocy an ate	8%(E)(W)	NA	NA
		Toluene Diisocyanate	15名(E)(い)	NA	NA
	7 <u>B</u>	Polyol	58%(E)(W)	NA	ΝA
		Amorphous Silica	870(E)(W)	NA	NA-
		Cyclic Amine	3%(E)(W)	NA	NA
		Polyol	3350(E)(W)	NA	NA
7.06	continued b	elow			
					•
			•		
			•		

 $[\ \]$ Mark (X) this box if you attach a continuation sheet.

7.06 (ontinued)
--------	-----------

¹For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example.

Additive uckage Number	Components of Additive Package	Concentrations (% or ppm)		
1	NA .			
2	NA			
2	NR .			
3	NA			
·				
4	NA			
<u>5</u>	NA			
the following codes	to designate how the concentrati			

^{2 []}

³Use the following codes to designate how the concentration was measured:

V = Volume

W = Weight

^[]] Mark (X) this box if you attach a continuation sheet.

8.01 <u>CBI</u>	ent block flow diag ified in question 7	lock flow diagram in question 7.01				
[_]	Process type	Two-Part	Urethane	Adhesive	Mix Process	
14						
		•				
			·			
					•	
	•					

8.05 <u>CBI</u>	Characterize each process stream identified in your residual treatment block flow diagram(s). If a residual treatment block flow diagram is provided for more than on process type, photocopy this question and complete it separately for each process type. (Refer to the instructions for further explanation and an example.) Process type								
[_]									
NA	a.	b.	c.	d.	e.	f.	g.		
	Stream ID Code	Type of Hazardous Waste	Physical State of Residual ²	Known Compounds ³	Concentra- tions (% or ppm) ^{4,5} ,6	Other Expected Compounds	Estimated Concen- trations (% or ppm)		
			-						
			•						
		· ·							
8.05	continu	ed below				•			

8.05 (continued) ¹Use the following codes to designate the type of hazardous waste: I = Ignitable C = Corrosive R = Reactive E = EP toxicT = ToxicH = Acutely hazardous ²Use the following codes to designate the physical state of the residual: GC = Gas (condensible at ambient temperature and pressure) GU = Gas (uncondensible at ambient temperature and pressure) S0 = SolidSY = Sludge or slurry AL = Aqueous liquid OL = Organic liquid IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene) 8.05 continued below NA

8.0	5 (continued)		
NА	that are present in each Assign an additive package column d. (Refer to the	e introduced into a process str additive package, and the conc ge number to each additive pack instructions for further expla r the definition of additive pa	entration of each componen age and list this number i
	Additive Package Number	Components of Additive Package	Concentrations(% or ppm)
	1		
	2		
	2	***	
	•		
	3		
	<i>,</i>		
	4		
	5		
	4		
	<pre>A = Analytical result E = Engineering judgement/c</pre>		
8.05	continued below		
[_]	Mark (X) this box if you atta	ach a continuation sheet.	

8.05	(continued)		
AL	⁵ Use the fol	llowing codes to designate how the concentration was m	neasured:
	V = Volume W = Weight		
	⁶ Specify the below. Ass	e analytical test methods used and their detection lim sign a code to each test method used and list those co	its in the table des in column e.
	Code	<u>Method</u>	Detection Lim (± ug/l)
	2		-
	4		
	6		
		•	
		•	

8.06	diagram	n(s). If a s type, pho	h process stre a residual tre otocopy this q the instructi	eatment block uestion and	flow diag complete i	gram is pro It separate	vided for mo	ore than one
CBI								
[_]	Process	type	<u>owT</u>	-Part U	rethane,	Adhesive	Mix tro	٠৫૬٢
NA	а.	b.	c.	d.	е		f. Costs for	g.
	Stream ID Code	Waste Descripti Code ¹	Management ion Method Code ²	Residual Quantities (kg/yr)	of Resi	gement dual (%) Off-Site	Off-Site Management (per kg)	Changes in Management Methods
	-					*****		
							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			-					
				·				

			et a company					
			*					
			ovided in Exhi					
[_]	Mark (X)	this box	if you attach	a continuat	ion sheet.			•

/ _1		Ch	oustion namber nture (°C)	Temp	ation of perature pnitor	In Co	ence Time mbustion (seconds)
	Incinerator	Primary	Secondary	Primary	Secondary	Primary	Seconda
	1						
	2		· · · · · · · · · · · · · · · · · · ·				
	3						
	Indicate by circl	if Office ing the app	of Solid Wast ropriate resp	e survey ha onse.	s been submit	ted in lieu	of respons
	Yes	••••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • •
	No	• • • • • • • • • • • •	• • • • • • • • • • • • •	• • • • • • • • • • •		• • • • • • • • • • •	••••
			•				
	Complete the for are used on-sign treatment block	re to nath (cam(s).	identified	t (by capacity in your proce	ess block or Types	residual of
	are apea ou-21	re to nath (cam(s).	llution	t (by capacity in your proce	ess block or	residual of s Data
	Incinerator	re to nath (ram(s). Air Pol	llution	t (by capacity in your proce	ess block or Types Emission	residual of s Data
	Incinerator 1	re to nath (ram(s). Air Pol	llution	t (by capacity in your proce	ess block or Types Emission	residual of s Data
	Incinerator 1 2 3 Indicate	if Office o	ram(s). Air Pol	llution Device	1n your proce	ess block or Types Emission Avail	residual of s Data able
	Incinerator 1 2 Indicate by circli	if Office o	Air Pol Control f Solid Waste	llution Device survey has	been submitt	Types Emission Avail	of s Data able
<u>[</u>	Incinerator 1 2 3 Indicate by circli	if Office o	Air Pol Control f Solid Waste opriate respo	llution Device survey has nse.	been submitt	Types Emission Avail	of s Data able of respons
23 []	Incinerator 1 2 3 Indicate by circli Yes	if Office ong the appr	Air Pol Control f Solid Waste opriate respo	llution Device survey has	been submitt	Types Emission Avail	of s Data able
]	Incinerator 1 2 3 Indicate by circli Yes	if Office o	Air Pol Control f Solid Waste opriate respo	llution Device survey has nse.	been submitt	Types Emission Avail	of s Data able

PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

9.01 Mark (X) the appropriate column to indicate whether your company maintains records on the following data elements for hourly and salaried workers. Specify for each data element the year in which you began maintaining records and the number of years the records for that data element are maintained. (Refer to the instructions for further explanation and an example.)

	Data are Ma Hourly	intained for Salaried	Year in Which Data Collection	Number of
Data Element	Workers	Workers	Began Began	Years Records Are Maintained
Date of hire	<u>X</u>	X	1968	99
Age at hire	X	X	1968	99
Work history of individual before employment at your facility	X	X	1968	99
Sex	<u>X</u>	<u>- X</u>	1968	99
Race	<u>×</u>	X	1968	. 99
Job titles	X	<u> </u>	1968	99
Start date for each job title		X	1968	99
End date for each job title	<u>×</u>		1968	99
Work area industrial hygiene monitoring data	<u>X</u>	NA	1978	NA
Personal employee monitoring data	X	NA	1978	NA
Employee medical history	\overline{X}		1968	99
Employee smoking history	NA	NA	NA-	NA
Accident history		X	1968	49
Retirement date	<u> </u>	X	1968	99
Termination date	<u> </u>	X	1968	99
Vital status of retirees	NA-	NA	NA	NA
Cause of death data	NA	NA	NA	NA-

[_]	Mark	(X)	this	box	if	you	attach	а	continuation	sheet
-----	------	-----	------	-----	----	-----	--------	---	--------------	-------

[_]	_				
	a.	b.	c.	d.	e.
	Activity	Process Category	Yearly Quantity (kg)	Total Workers	Total Worker-Hours
	Manufacture of the listed substance	Enclosed	NA		
	115 ccc 3d03 tance	Controlled Release	NA		
		0pen	NA-		
	On-site use as reactant	Enclosed	3191	16	64,000
		Controlled Release	- NA		
		0pen	77	2	63
	On-site use as nonreactant	Enclosed	NA		
		Controlled Release	NA		
		0pen	NA		
	On-site preparation of products	Enclosed	NA		
	-	Controlled Release	<u>NA</u>		
		0pen	NA		

9.03 CBI	Provide a descripti encompasses workers listed substance.	ve job title for each labor category at your facility that who may potentially come in contact with or be exposed to the
_	Labor Category	Descriptive Job Title
	A	BOND MAINTENANCE
	В	100 75040
	c	RECEIVING INSPECTOR
	D	BOND ASSEMBLY
•	E	BOND MESENBLY
	F	
	G	
	Н	
	I	
	J	
		·
		•
		•

				· · · · · · · · · · · · · · · · · · ·	
9.04	In accorda indicate a	nce with the instr ssociated work are	ructions, provide you eas.	r process block flow dia	gram(s) and
CBI	Process ty	pe	00-Part Urethane	Adhesive Mix Proce	? <i>55</i>
					,
		BASE COMPONEN	¹ T(7A)	CURATIVE (7B)	
	QUALITY CONTROL				·
	1 1	Pump.	7A (1)	78 Pump 7.1	٠.
М	BOND MINTENANCE AREA		SHOT METER CYLINDER 7.2	10	
	(a)		URETHAN ADHESI (7C)	NE VE	
- I	RECEIVING FNSPECTION AREA		GAN WITH STATIC MIXER 7.3		

 $^[\ \]$ Mark (X) this box if you attach a continuation sheet.

9.05 CBI	additional are	various work area(s) shown in question 9.04 that encompass workers who ly come in contact with or be exposed to the listed substance. Add any eas not shown in the process block flow diagram in question 7.01 or opy this question and complete it separately for each process type.
[_]	Process type	Two-Part Urethane Adhesive Mix Process
	Work Area ID	Description of Work Areas and Worker Activities
	1	Quality control lab (workers mix together 2-components and test)
	2	Bond Maintenance (workers set-up repair equipment for dispens
	3	Receiving Inspection (worker removes sample for Q.C. Lal
	4	Dispensing & Assembly (workers dispense bond of more bonded parts to f
	5	Robotic Bond Dispensing & Assembly workers move bonded parts to fixtures
	6	
	7	
	8	
	9	
	10	
		ox if you attach a continuation sheet.

<u>:</u>]	Process type	e	so-Part	Urethan	pe and work a	Mix Arac	
	Work area	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • •	• • • • • •	1	ESS
	Labor Category	Number of Workers Exposed	Mode of Expo (e.g., d skin con	sure irect tact)	Physical State of Listed Substance	Average Length of Exposure Per Day ²	Number Days pe Year Expose
			Direct skin	contact	OL, SY	B	_50
							
					-		
				· · · · · · · · · · · · · · · · · · ·			
2 L A B	GC = Gas (contemperated to the second state of	ondensible at a sture and press acondensible at a ture and press s fumes, vapor wing codes to a s or less han 15 minutes, 1 hour han one hour.	umbient ure) ambient ure; s, etc.) designate ave	SY = 1 AL = 1 OL = 0 IL = 1 0 erage len D = Gr ex E = Gr	Sludge or slum Aqueous liquid Organic liquid Immiscible liq (specify phase 00% water, 10% agth of exposu eater than 2 ceeding 4 hou	rry I I I I I I I I I I I I I	:

9.06	Complete the	ne following ta category at yo tact with or h	able for each our facility the	work area	identified	in question 9 ers who may po	.05, and for
CBI .	and complet	tact with or be it separatel	y for each pro	the liste ocess typ	ed substance. De and work a	Photocopy t	his question
[<u>·</u>]		e					, 055
		•••••			••••	2	,
	Labor Category	Number of Workers Exposed	Mode of Expos (e.g., di skin cont	rect	Physical State of Listed Substance ¹	Average Length of Exposure Per Day ²	Number of Days per Year Exposed
	<u> </u>		Direct skin	contact	OL, SY	C	250
				 .			
• .							<u>·</u>
	-						
	GC = Gas (c temper GU = Gas (u temper	ondensible at ature and pres ncondensible a ature and pres	ambient sure) t ambient sure:	SY = S $AL = A$ $OL = O$	l state of t ludge or slu queous liqui rganic liqui mmiscible li	rry d d	stance at
	50 = Solid	es fumes, vapo		(: 9(specify phase 0% water, 10%	es, e.g., % toluene)	
		owing codes to	designate ave				
I	exceeding	han 15 minutes		E = Gre	eeding 4 hot	hours, but no	

Labor Category C Use the fol	Number of Workers Exposed		ure rect act) S	Physical State of Listed substance	Average Length of Exposure Per Day	Number of Days per Year Exposed
Category C Use the fol	Workers	of Exposi (e.g., din skin conta	ure rect act) S	State of Listed Substance	Length of Exposure Per Day ²	Days per Year Exposed
		Direct skin (ontact	OL'	A-	<u> </u>
¹ Use the fol						
¹ Use the fol						
¹ Use the fol						
						-
¹ Use the fol		-				<u> </u>
¹ Use the fol						
¹ Use the fol						
the point o	lowing codes to f exposure:	designate the	e physical	. state of	the listed sub	stance at
	condensible at a			udge or sl		
GU = Gas(rature and press uncondensible a	t ambient	0L = 0r	ueous liqu ganic liqu	id	
	rature and press des fumes, vapor		IL = Im	miscible l	iquid	
SO = Solid	aco zames, vapor	15, 610.7		pecify pha: % water, 10	0% toluene)	
² Use the fol:	lowing codes to	designate ave	erage leng	th of expos	sure per day:	
A = 15 minu B = Greater	tes or less than 15 minutes		D = Grea	ater than 2 eeding 4 ho	2 hours, but no	
C = Greater	ng 1 hour than one hour, ng 2 hours	but not		ater than 4 eeding 8 ho	4 hours, but no	ot -

			••••••		e Adhesive Mix Process		
Lat Categ	-	Number of Workers Exposed	Mode of Expo (e.g., d skin con	sure irect	Physical State of Listed Substance ¹	Average Length of Exposure Per Day ²	Number Days pe Year Expose
<u>,D</u>		<u> </u>	Direct Skin	(ontact	SY		250
_ <u>A</u>	 .		Direct Skin	Contact	OL,SY	C	250
			•				
							
							<u>·</u>
	———						
			-				
•	 .						
							
GC = GU = SO =	Gas (co tempera Gas (un tempera include Solid	ondensible at a ture and presidential and president and pr	ambient ssure) at ambient ssure; ors, etc.)	SY = AL = OL = IL =	Sludge or slu Aqueous liqui Organic liqui Immiscible li (specify phase 90% water, 10	d d quid es, e.g., % toluene)	stance at
			designate av	erage le	ngth of expos	ure per day:	
B = Gre exc C = Gre	eater to eeding eater to	s or less han 15 minute 1 hour han one hour, 2 hours		E = G e	xceeding 4 hou	hours, but no	

CBI	each labor come in con	category at yo tact with or b	our facility that	encompasses was listed substa	fied in question some corkers who may poince. Photocopy fork area.	otentially		
<u> </u>	Process type Two-Part Urethane Adhesive Mix Process							
	Work area	• • • • • • • • • • • • • • • • • • • •	•••••	· · · · · · · · -	5	•		
	Labor Category	Number of Workers Exposed	Mode of Exposur (e.g., dire skin contac	ct Liste t) Substan	of Length of Exposure	Number of Days per Year Exposed		
		<u> </u>	Direct skin con		А <u>С</u>	250 250		
						-		
	GC = Gas (contemper	condensible at rature and pre	t ambient essure)	SY = Sludge o AL = Aqueous	liquid	ubstance at		
	tempe	uncondensible rature and predes fumes, var	essure;	OL = Organic IL = Immiscib (specify 90% wate				
	² Use the foll	lowing codes t	o designate aver	age length of	exposure per day:			
	A = 15 minut B = Greater exceedin C = Greater		es, but not	D = Greater to exceeding	han 2 hours, but 4 hours han 4 hours, but 8 hours	not		

9.07 CBI	Photocopy this quest area.	ory represented in question 9.00 A) exposure levels and the 15-mi ion and complete it separately i	for each process type and work
<u>_</u> 1	Process type	Two-Part Urethane Adh	resiva Mi Da
	Work area		1
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m³, other-specify)	15-Minute Peak Exposure Leve (ppm, mg/m³, other-specify)
	B	NA	NA-
_			
_			
_			
_			
		•	

BI		gory represented in question 9.06 WA) exposure levels and the 15-mi tion and complete it separately i	
<u>_</u>]	Process type	Two-Part Urethane A	dhesive Mix Process
	Work area	•	2
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m ³ , other-specify)	15-Minute Peak Exposure Le (ppm, mg/m³, other-specif
	A	NA	NA-
	Park Company		
•			
			•
		•	

9.07 CBI	area.	ory represented in question 9.06 A) exposure levels and the 15-min ion and complete it separately fo	or each process type and work
[_]	Process type	Two-Part Urethane Ac	11 , 11, 7
	Work area	WETHANE HO	
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m³, other-specify)	15-Minute Peak Exposure Leve
	\overline{C}	· 	15-Minute Peak Exposure Leve (ppm, mg/m³, other-specify)
		NA	NA-
•			
-			
_			
_			
_			
		•	
Mar	k (X) this box if you	attach a continuation sheet.	

Process type Work area Labor Category	Two-Part Urethane A	dhesive Mix Process
Work area		anesive 1911x maces
		1_1
Labor Category		<u> </u>
	8-hour TWA Exposure Level (ppm, mg/m ³ , other-specify)	15-Minute Peak Exposure Leve (ppm, mg/m³, other-specify)
D	NA	NA
Α	NA	NA
		•
		-
	•	
		-
	· · · · · · · · · · · · · · · · · · ·	10/1

9.07 CBI	Photocopy this ques	egory represented in question 9.06 IWA) exposure levels and the 15-mi stion and complete it separately f	or each process type and work
[_]	Process type	. Two-Part Urethane A	thesive Mix Process
	Work area		5
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m³, other-specify)	15-Minute Peak Exposure Lev (ppm, mg/m³, other-specify
	D	NA	NA
			N.
•			
•			
•			
-			
			•

If you monitor works NA	·				to the 10	atowing tabl
Sample/Test	Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who	Analyzed In-House (Y/N)	Number of Years Recor Maintained
Personal breathing zone	<u> </u>					
General work area (air)	•		***			
Wipe samples						
Adhesive patches						C
Blood samples						
Urine samples						
Respiratory samples						
Allergy tests						
Other (specify)			,			
Other (specify)						
Other (specify)			- Marian		CPORTON DAMES OF THE PROPERTY	
¹ Use the following co A = Plant industrial B = Insurance carrie C = OSHA consultant D = Other (specify)	hygienis		takes the r	nonitoring	samples:	·

Sample Type		Sampli	ng and Analyt	ical Methodol	ogy		
				•			
· · · · · · · · · · · · · · · · · · ·	The state of the s						
T.C	3 1/			.1 71 . 1			
If you conduct person specify the following					ubstance,		
				Avonomina			
Equipment Type 1	Detection Limi	t ² Ma	nufacturer	Averaging <u>Time (hr)</u>	Model Numb		
	_	_					
		-	•				
		— ——					
¹ Use the following c	odes to designat	e person	al air monit	oring equipmen	t types:		
A = Passive dosimet B = Detector tube	er						
C = Charcoal filtra		ump					
D = Other (specify) Use the following codes to designate ambient air monitoring equipment types:							
E = Stationary monitors located within work area							
<pre>F = Stationary moni G = Stationary moni</pre>							
<pre>H = Mobile monitori I = Other (specify)</pre>	ng equipment (sp	ecify) _					
² Use the following c		e detect	ion limit uni	its:			
A = ppm							
<pre>B = Fibers/cubic ce C = Micrograms/cubi</pre>	c meter (1/cc)						

]	NA Test Description	Frequency				
•	rest besettperon	(weekly, monthly, yearly, etc.)				
_						
_						
	•					
		•				

t o	cribe the engineering co the listed substance. I cess type and work area.	THOLOCODY THIS	u use to reduce o question and comp	or eliminate wo olete it separa	rker exposu tely for ea				
	Process type Two-Part Urethane Adhesive Mix Proces Work area								
Eng	ineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded				
Vent	tilation:								
I	Local exhaust	N.		<u> </u>					
. G	General dilution	<u> </u>							
O	ther (specify)								
- Vess	el emission controls	N							
Mech pa	anical loading or ckaging equipment	<u>N</u>							
0the	r (specify)								
-		4-1							
	·								

9.12 CBI	Describe the engineering co to the listed substance. F process type and work area.	ontrols that yo	ou use to reduce of question and comp	or eliminate wo lete it separa	rker exposur tely for eac
	Process type	· Two-Par	+ Wrethane +	thesive Mi	x Proces
	Engineering Controls Ventilation:	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded
	Local exhaust	<u>N</u>			
	General dilution Other (specify)	<u> </u>			
	Vessel emission controls	72			
	Mechanical loading or packaging equipment	N			
-	Other (specify)				
	•				

process type an	d work area.	oregry times	ou use to reduce of question and comp	oiete it separa	tely for ea
Process type Work area	• • • • • • • • • • • • • • • • • • • •	Two-Par	+ Urethane +	Adhesive Mi	
Engineering Cont	rols	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgradeo
Ventilation:					opgraded
Local exhaust		_ N .			
General dilut	ion	N			
Other (specif	у)				
Vessel emission	controls	N			
Mechanical loadir packaging equip	ng or Oment	N			
Other (specify)			•.		
	•				

12 Describe the engineering con to the listed substance. Phoprocess type and work area.	.,		rete it separat	ely for ea
Process type	Two-Part	- Wrethane +	Idhesive Mi	x Proces
Work area	• • • • • • • • • • • • •	••••••	4	
Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded
Ventilation:				_opgrade
Local exhaust	N .			
General dilution	2			
Other (specify)				
Vessel emission controls	N			
Mechanical loading or packaging equipment	N			
Other (specify)				
•				
•				

Describe the engineering co to the listed substance. P process type and work area.	notocopy this	question and comp	lete it separa	tely for eac
Process type		+ Wrethane +	thesive Mi	x Proces
Work area	• • • • • • • • • • • • • • • • • • • •	•••••	5	,
Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded
Ventilation:				
Local exhaust	<u>N</u>			
General dilution	<u>N</u>			
Other (specify)				, p
Vessel emission controls				
Mechanical loading or packaging equipment		1980 1981		
Other (specify)				
				-
		•		

	Describe all equipment or process modifications you have me prior to the reporting year that have resulted in a reduct the listed substance. For each equipment or process modification that resulted. Photocomplete it separately for each process type and work area.	ion of worker exposure ication described, sta
<u>-</u>]		
_1	Process type Two Part Urethane Adhesi	ve Mix tracess
	Work area	1,2,3,4,45
	Equipment or Process Modification	Reduction in Worker Exposure Per Year ()
	•	

9.14 CBI	Describe the per in each work are substance. Phot and work area.	sonal protective and safety eq a in order to reduce or elimin ocopy this question and comple	uipment that your work ate their exposure to te it separately for ea	ers wear or us the listed ach process ty
[_]	Process type	Two-Part Urethane	= Adhesive Mix Pr	ocesć
•		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	1
	•			
	· .	Equipment Types	Wear or Use (Y/N)	
		Respirators	N	
		Safety goggles/glasses	<u> </u>	
		Face shields	N	
		Coveralls	N	
		Bib aprons	_ N	
		Chemical-resistant gloves	<u> </u>	
		Other (specify)		
		Lab coats	<u> </u>	
		·		
			,	

in each work substance. P and work area BI	personal protective and safety equarea in order to reduce or elimina hotocopy this question and complet	ipment that you te their exposu e it separately	r workers wear or use re to the listed for each process type
] Process type	Two-Part Urethane	Adhesive V	liv. Parage
Work area			lix Process
	Favinas A. W.	Wear or Use	
	Equipment Types	<u>(Y/N)</u>	
	Respirators	<u>N</u>	
	Safety goggles/glasses	<u> </u>	
	Face shields	<u> </u>	
	Coveralls	<u> </u>	
	Bib aprons	<u>N</u>	
	Chemical-resistant gloves	<u> </u>	•
	Other (specify)		
·			

PART	D PERSONAL PROTECTIVE	AND SAFETY EQUIPMENT		
9.14 <u>CBI</u>	Describe the personal in each work area in o substance. Photocopy and work area.	protective and safety order to reduce or elimental this question and comp	equipment that your minate their exposur plete it separately	workers wear or use e to the listed for each process typ
[_]	Process type	Two-Part Uretha	ne Adhesive W	ix Process
	Work area	• • • • • • • • • • • • • • • • • • • •		3
	Re Sa Fa Co Bil Che	espirators fety goggles/glasses ce shields veralls b aprons emical-resistant glove her (specify)		

9.14	Describe the pers	onal protective and safety ed	quipment that your workers wear or us
CBI	substance. Photo and work area.	copy this question and comple	quipment that your workers wear or us nate their exposure to the listed ete it separately for each process ty
[_]	Process type	Two-Part Urethan	e Adhesive Mix Process
•		• • • • • • • • • • • • • • • • • • • •	Ц
			Va
		Equipment Types	Wear or Use (Y/N)
		Respirators	N
		Safety goggles/glasses	
		Face shields	
		Coveralls	N
		Bib aprons	N
		Chemical-resistant gloves	<u> </u>
		Other (specify)	. •
		-	
		•	
			,

9.14 CBI	Describe the perso in each work area substance. Photoc and work area.	onal protective and safety ed in order to reduce or elimin copy this question and comple	quipment that your wor nate their exposure to ete it separately for	kers wear or the listed each process
[_]	Process type	Two-Part Wrethan	e Adhesive Wive	rocess
·				5
	·	Equipment Types	Wear or Use (Y/N)	
		Respirators	<u> </u>	
		Safety goggles/glasses	<u> </u>	
		Face shields	$\frac{1}{N}$	
		Coveralls	<u> </u>	
		Bib aprons		
		Chemical-resistant gloves		
		Other (specify)		
		•		
•	•			
			•	

9.15	respirator tested, an	s use respirators when work areas when work areas when so used, the average used the type and frequence t separately for each part of the contract of the cont	re the respirat age, whether or av of the fit t	ors are u	sed, the type	e of
CBI	NA					
[_]	Process ty	pe Two-Pa	rt Wrethane	Adhesi	ve Mix Pr	mces5
	Work Area	Respirator Type	Average Usage ¹	Fit Tested (Y/N)	Type of Fit Test ²	Frequency of Fit Tests (per year)
	2 Use the fo QL = Quali QT = Quant		aate the type o	f fit test	t:	
				·		

DADM	B				···
PART	E WORK PRACTICES				
9.19 CBI [_]	Describe all of the work eliminate worker exposur authorized workers, mark monitoring practices, properties and complete it	c areas with warn covide worker tra separately for e	substance (e. ing signs, in ining program each process	g., restrict sure worker d s, etc.). Ph type and work	entrance only to etection and otocopy this area.
	Process type Tu	so-tart Wreth	name Adhes	Sive Mix H	xess
	Work area	•••••••••	••••••	1,2,3	,4,45
	1. Training program	15			
-		-			
·					
	Indicate (X) how often you leaks or spills of the liseparately for each process type \text{\subset}\sqrt{\omega}	ess type and work - Part Ureth	area. ane Adhes	is question and we Mix t	id complete it
1	Housekeeping Tasks	Less Than Once Per Day	1-2 Times _Per Day	3-4 Times Per Day	More Than 4 Times Per Day
•	Sweeping		×		
7	Vacuuming	-			
V	Nater flushing of floors	-			
C	other (specify)				
_					_
		•			
	and the contract of the contra				
_] [13	ark (X) this box if you at	ttach a continuat	ion sheet.		

9.2 lot	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?
equired	Routine exposure
	Yes
	No
	Emergency exposure
	Yes
	No
	If yes, where are copies of the plan maintained?
	Routine exposure:
	Emergency exposure:
9.22	/ a with this lask and cuill blocks also as a second of the s
9.22	substance? Circle the appropriate response.
9.22	substance? Circle the appropriate response. Yes
9.22	substance? Circle the appropriate response. Yes
9.22	substance? Circle the appropriate response. Yes
9.22	substance? Circle the appropriate response. Yes
9.22	Substance? Circle the appropriate response. Yes
9.22	Substance? Circle the appropriate response. Yes
9.22	Substance? Circle the appropriate response. Yes
9.23	Substance? Circle the appropriate response. Yes
9.23	Substance? Circle the appropriate response. Yes
9.23 uired	Substance? Circle the appropriate response. Yes
9.23	Substance? Circle the appropriate response. Yes
9.23	Substance? Circle the appropriate response. Yes

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

PART	A GENERAL INFORMATION
10.01 <u>CBI</u>	l Where is your facility located? Circle all appropriate responses.
[_]	Industrial area
	Urban area
	Agricultural area
	Adjacent to a park or a recreational area 6
	Within 1 mile of a navigable waterway
	Within 1 mile of a non-navigable waterway
	Mark (X) this box if you attach a continuation sheet.

10.02	Specify the exact location of your is located) in terms of latitude an (UTM) coordinates.	facility (from cend de longitude or Uni	ntral point when iversal Transver	re process unit rse Mercader
	Latitude	•••••	_38 • :	29,30
	Longitude	•••••	89_•_6	20
	UTM coordinates Zone _	, North	ing, F	Casting
10.03	If you monitor meteorological condithe following information.	tions in the vicin	ity of your fac	ility, provide
guired	Average annual precipitation	••••••		inches/yea
	Predominant wind direction	•••••••••••••••••••••••••••••••••••••••	7177	
10.04 Tired	Indicate the depth to groundwater be	•	• •	meters
۲. ۲		ndicate (Y/N/NA) a	ll routine rele	ases of the
10.05 CBI	Depth to groundwater For each on-site activity listed, in listed substance to the environment.	dicate (Y/N/NA) al (Refer to the in	ll routine rele	ases of the a definition o
10.05 CBI	Depth to groundwater For each on-site activity listed, in listed substance to the environment. Y, N, and NA.)	dicate (Y/N/NA) al (Refer to the ir	ll routine releanstructions for	ases of the a definition o
10.05 <u>CBI</u>	For each on-site activity listed, in listed substance to the environment. Y, N, and NA.) On-Site Activity	edicate (Y/N/NA) all (Refer to the in Envi	ll routine releanstructions for ironmental Relea	ases of the a definition o ase Land
10.05 CBI [_]	For each on-site activity listed, in listed substance to the environment. Y, N, and NA.) On-Site Activity Manufacturing	edicate (Y/N/NA) all (Refer to the in Envi	ll routine releanstructions for ironmental Relea	ases of the a definition o
10.05 CBI [_]	For each on-site activity listed, in listed substance to the environment. Y, N, and NA.) On-Site Activity Manufacturing Importing	edicate (Y/N/NA) all (Refer to the in Envi	ll routine releastructions for ironmental Releasemental Re	ases of the a definition o
10.05 CBI [_]	For each on-site activity listed, in listed substance to the environment. Y, N, and NA.) On-Site Activity Manufacturing Importing Processing	edicate (Y/N/NA) all (Refer to the in Air NA NA	ll routine releastructions for ironmental Releasurer	ases of the a definition of a definition of the ase Land NA-NA-NA-N
10.05 CBI	Depth to groundwater For each on-site activity listed, in listed substance to the environment. Y, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used	Envi	ll routine releanstructions for ironmental Relea	ases of the a definition of a definition of the addition of th

_]	Quantity discharged to the sin		
	Quantity discharged to the air		
	Quantity discharged in wastewaters		kg/yr ± _
	Quantity managed as other waste in on-site treatment, storage, or disposal units		kg/yr ±
	Quantity managed as other waste in off-site treatment, storage, or disposal units		kg/yr +
		·	

<u>3I</u> -,	process block or residual treatment block flow diagram(s). Photocopy this question and complete it separately for each process type. Process type Two-Part Urethane Adhesive Mix Pocess					
_]	Process type	Two-Part Wrethane Ac	Thesive Mix Hoces			
A	Stream ID Code	Control Technology	Percent Efficien			
	·					

10.09 <u>CBI</u> []	residual treatmen source. Do not i	is of a Stream ID it block flow diag nclude raw materi	Code as identified in ram(s), and provide a all and product stored	source containing the li your process block or description of each poi e vents, or fugitive emi	int
	for each process	type.		on and complete it separ	,
JA	Process type	Two-Part	- Urethane Adhe	sive Mix Process	,
	Point Source ID Code		Description of E	mission Point Source	
		-			

		4.			
-		****			
-		4.	·		
-					
	÷			•	
		•			

Mark

8

this

box if you

10.11 CBI	Stack Parameters Identify the stack parameters for each Point Source ID Code identified in question 10.09 by completing the following table.									
[]	Point Source ID Code	Stack Height(m)	Stack Inner Diameter (at outlet) (m)	Exhaust Temperature (°C)	Emission Exit Velocity (m/sec)	Building <u>Height(m)</u> ¹	Building Width(m) ²	Vent Type ³		

•										
					1					
-			-							
1	Height of attached or adjacent building									
			adjacent bu							
				gnate vent ty						
	H = Horize		des to desig	gnate vent ty	pe:					
	V = Verti				-					

[[]_] Mark (X) this box if you attach a continuation sheet.

10.12	distribution for each Point Source	d in particulate form, indicate the particle size E ID Code identified in question 10.09. Ete it separately for each emission point source.
<u>CBI</u>	NA	
[_]	Point source ID code	
	Cina Barra (at	
	Size Range (microns)	Mass Fraction ($\% \pm \%$ precision)
	< 1	
	≥ 1 to < 10	
	≥ 10 to < 30	
	≥ 30 to < 50	
	≥ 50 to < 100	
	≥ 100 to < 500	
	≥ 500	
		Total = 100%
		•
	•	

10.13	Equipment Leaks Complet	e the follow	ing table	hy neares	dina +h-	n	E
	according to the specified the component. Do this for residual treatment block for not exposed to the listed process, give an overall p	weight perc r each proce low diagram(substance. ercentage of	ent of the standard s	Distance and listed dentified to the listed	and which substance in your le equipme or inter	are in see passing process bent types mittently	ervice through block or that are operated
<u>CBI</u>	exposed to the listed subs	tance. Photo	ocopy thi	s questio	n and com	plete it	separatel
[_]	Process type <u>Two</u> -	-Part Ure	thane	Adhesi	re Mix	Prace	· <_
	Percentage of time per yea type	r that the li	sted sub	stanca is	evnosod	to this s	
			of Compo	nents in d Substan	Service b	y Weight cess Stre	Percent am
	Equipment Type Pump seals ¹	Less than 5%	5-10%	11-25%	26-75%	76-99%	Greater than 99
	Packed			8			
	Mechanical			0		/	
	Double mechanical ²			0			
	Compressor seals ¹			0			
	Flanges			0			
,	Valves			•			
	Gas ³			0			
	Liquid			0			
1	Pressure relief devices ⁴ (Gas or vapor only)			0			
,	Sample connections						
	Gas			0			
	Liquid			<u> T</u>			
C	Open-ended lines ⁵ (e.g., purge, vent)						-
	Gas			0			
	Liquid			1			
1	List the number of pump and compressors	compressor	seals, ra	ather than	the numl	per of pu	mps or
0.13	continued on next page						

10.13	(continued)							
	² If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) tha will detect failure of the seal system, the barrier fluid system, or both, indica with a "B" and/or an "S", respectively							
	³ Conditions existing in the valve during normal operation							
	⁴ Report all pressure relie control devices			equipped with				
	⁵ Lines closed during norma operations	al operation that wou	ıld be used during	maintenance				
10.14 <u>CBI</u> []	Pressure Relief Devices wi pressure relief devices id devices in service are con enter "None" under column	entified in 10.13 to trolled. If a press	, indicate which n	rocento molias				
NA	a. Number of Pressure Relief Devices	b. Percent Chemical in Vessel ¹	c. Control Device	d. Estimated Control Efficiency				
	<u> </u>							
	•							
-								
	Refer to the table in quest heading entitled "Number of Substance" (e.g., <5%, 5-10	. Components in Servi	l the percent rang ce by Weight Perc	e given under the ent of Listed				
•	The EPA assigns a control e with rupture discs under no efficiency of 98 percent fo conditions	rmar oberating condi	tions. The EPA as	ssions a control				
] Ma	ark (X) this box if you att	ach a continuation s	heet.					

10.15	Equipment Leak Detection place, complete the procedures. Photocotype.	following table re	garding tho	se leak det	ection and r	enair
CBI	., p					
[_]	Process type	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	Two-Part	- Urethane	Adhesive M
NA	Equipment Type	Leak Detection Concentration (ppm or mg/m³) Measured at Inches from Source	Detection Device	of Leak Detection	Repairs Initiated (days after detection)	Repairs Completed (days after initiated)
i	Pump seals Packed Mechanical Double mechanical Compressor seals Flanges Valves Gas Liquid Pressure relief devices (gas or vapor only) Sample connections Gas Liquid Open-ended lines Gas Liquid					
		nic vapor analyzer nitoring			, '	
J _ M	ark (X) this box if yo	ou attach a continu	ation sheet			

120

PART	E NON-ROU	TINE RELEASES			·					
10.23 NA	was stop	Indicate the date and time when the release occurred and when the release ceased or was stopped. If there were more than six releases, attach a continuation sheet and list all releases.								
1017	Release	_ <u>.</u>	Date Started	Time (am/pm)	Date Stopped	Time (am/pm)				
	1									
	2									
	3			:						
	4					•				
	5					-				
	6	_	•							
10.24	Specify t	Reguired	nditions at the	time of each	release.					
	Release	Wind Speed (km/hr)	Wind Direction	Humidity(%)	Temperature (°C)	Precipitation (Y/N)				
	1									
	2			,						
٠	3									
	4									
	5				V. 2 (1)					
	6									

L	Mark	(X)	this	box	if	you	attach	а	continuation	sheet
---	------	-----	------	-----	----	-----	--------	---	--------------	-------